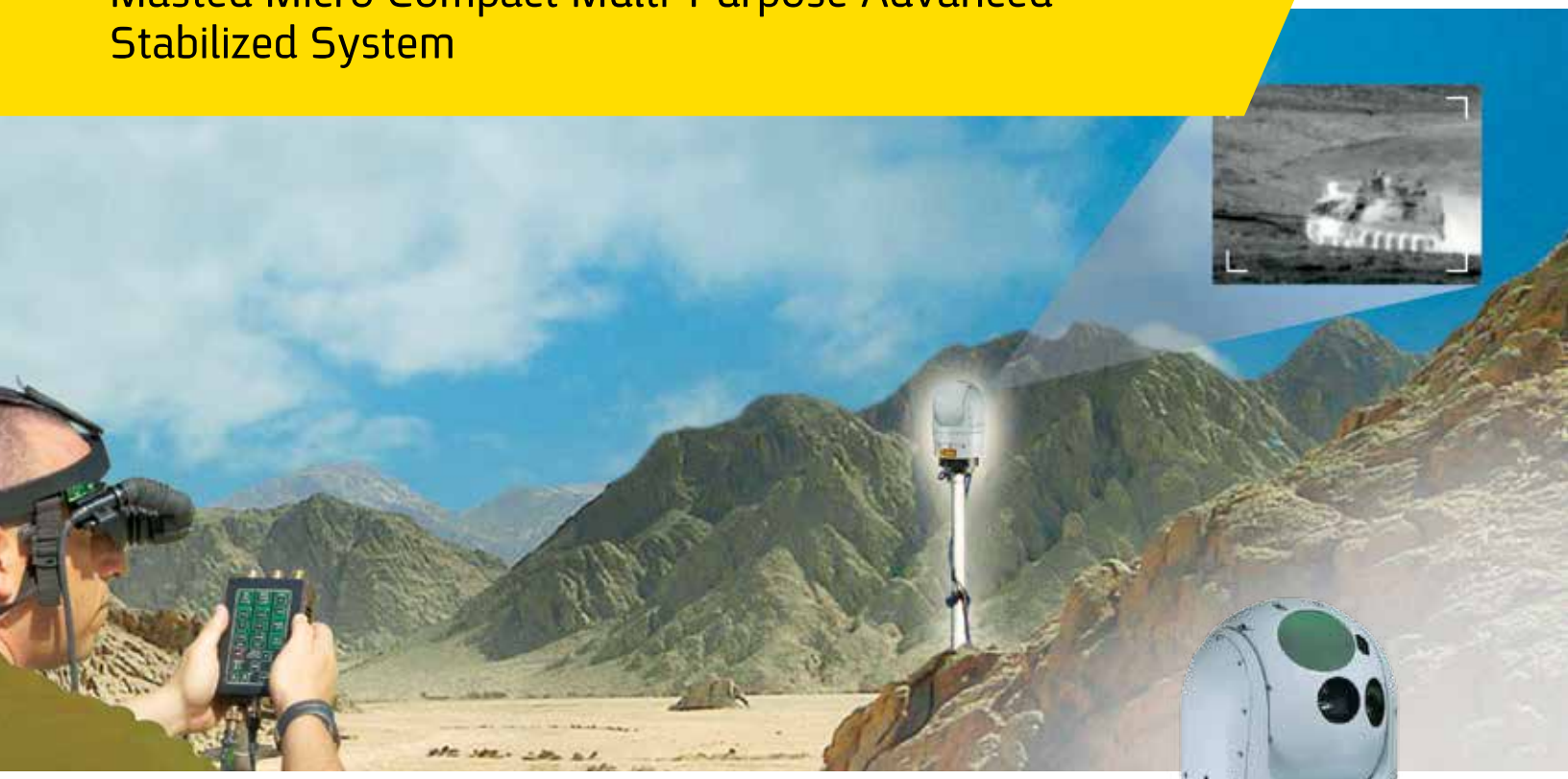
MicroCoMPASS™

Masted Micro Compact Multi-Purpose Advanced Stabilized System



General

The MicroCoMPASS payload is a member of battle-proven CoMPASS stabilized EO payload family, in use worldwide.

- Ultra-lightweight, extremely compact payload, one man portable mounted on ground/vehicle mast
- Cutting-edge optical technology delivers superb day and night ISTAR capabilities, even in harsh weather conditions
- Single LRU Integrating 4 major EO elements- thermal imager, color TV camera laser target illuminator, ELRF and optional Laser Designator
- Meets even the most severe environmental requirements, including heavy winds
- Reliable system, easy maintenance
- MicroCoMPASSTM is operated by the Miniature Observation Remote system MDVR 900C

Elbit Systems™ ISTAR

MicroCoMPASS

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Main Advantages & Features

- Provides stabilized LOS and easy operational control
- Easy to carry and deploy full observation kit
  - <9 Kg Payload
  - <20 Kg Mast
  - Fast Deployment and Repack (<3 min)
- Total solution for rapid field deployment:
  - Display
  - Joystick
  - DVR
  - Energy (Standard military batteries, small generator vehicle external power)
- Optimized to operate in all weather conditions
- Remote opreation increases safety and hides operator location
  - 30-50m cable

Technical Data MicroCoMPASS

System

- Diameter 8.2″
- Weight 9 Kg
- Angular coverage
  - Azimuth N x 360°
  - Elevation +30° to -90°
- Environmental conditions MIL-STD-810
- Video Output standard PAL, NTSC

Thermal Channel

- FLIR **Cooled 3rd Generation** 3-5 µm FPA
- FOV (continuous Zoom):
  - Narrow 2.5 x 2
  - Wide 17.5 x 14
  - Electronic Zoom X3
- Uncooled Thermal Imaging Camera (Optional)

Miniature Observation Remote system

- Dimensions 41 X 86 X 126 mm
- Weight 0.52 Kg (without DVR), 1.3 Kg (with DVR)

Day Channel

- Color TV Camera 1/4″, CCD Detector (Continuous Zoom)
- FOV
  - Narrow 1.7 X 1.2
  - Wide 42 x 32
  - Electronic zoom X12

Laser

- Laser Target Illuminator 830 nm (NVG compatible)
- Eyesafe Laser Range Finder (ELRF)
  - Laser wavelength: 1.54 µm (Eyesafe)
  - Repetition rate: 20 ppm continuously
  - Minimum range: 50 m
  - Maximum range: 3000 m (target and atmosphere)
- Laser Designator (optional)

External Interface

- RS 232/422, ETHERNET

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